



IOWA TELECOMMUNICATIONS AND TECHNOLOGY COMMISSION

Richard L. Bruner
CHAIR

Kathleen Kohorst
Kelly Dolan Lange

Timothy L. Lapointe
Mary Sellers

Mary Mosiman
Robert von Wolfradt

RIC LUMBARD, EXECUTIVE DIRECTOR

GOVERNOR TERRY E. BRANSTAD LIEUTENANT GOVERNOR KIM REYNOLDS

Iowa Telecommunications & Technology Commission

Grimes State Office Building, 1st Floor

400 E. 14th Street, Des Moines, IA 50319

April 20, 2017 Minutes

FINAL

To ensure the most efficient use of State resources, the April 20, 2017 ITTC meeting was held via telephonic conference pursuant to Iowa Code section 21.8. A telephonic conference also ensured more Commissioners were able to participate in the meeting and reduced the risk of delays caused by weather or other impediments to travel. The meeting was accessible to members of the public through attendance via Phone Bridge.

I. Roll Call:

- Commissioners Present:**

Richard Bruner, Chair (on-site)
Kathleen Kohorst, Member (video)
Kelly Dolan Lange, Member (on-site)
Timothy Lapointe, (on-site)
Robert von Wolfradt, Ex-Officio (on-site)
Mary Mosiman, Ex-Officio

Commissioners Absent:

Mary Sellers, Member

- Iowa Communications Network Staff Present:**

Ric Lumbard, Executive Director
Phil Groner, Chief Operating Officer
Deb Evans, Chief Financial Officer
Mark Johnson, Chief Administration Officer
Randy Goddard, Business Services Bureau Manager
Ryan Mulhall, Security Bureau Manager
Scott Pappan, Engineering Bureau Manager
Mark Lumsden, Broadband Information Center Operations Bureau Manager
Mike Cruise, Finance Bureau Manager
Dave Marley, Network Operations Center (NOC) Bureau Manager
Jessica Jensen, Executive Administrator
Lori Larsen, Communications Lead
TJ Boulet, Legislative Liaison
Karen Alessio, Secretary 2 (Recorder/Minutes)

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- **Guests:**

Sean Cory, Century Link
Ray Warner, Aureon Networks
Joe Coon, AEA Mississippi Bend Area Education Agency (video)

II. Call to Order

- Chair Bruner called the meeting to order at 10:29 a.m. It was noted that a quorum of members was present for the meeting. Chair Bruner noted that Commissioner Mary Sellers resigned as a member of the ITTC. Mary accepted a different position with United Way which will require a considerable amount of traveling. The process has begun for the appointment of a new Commissioner.

III. Approval of February 16, 2017 Meeting Minutes

- Chair Bruner requested a motion to approve the February 16, 2017 meeting minutes. Commissioner Lapointe moved to approve the minutes. Commissioner Lange seconded the motion. The motion was passed unanimously.

Commissioner Kohorst – Yes
Commissioner Lange – Yes
Commissioner Lapointe – Yes
Commissioner Bruner – Yes

IV. New Business

- **Introduction of Mark Lumsden – Phil Groner**

Dave Marley recently accepted the position of the Network Operations Center (NOC) Bureau Manager, leaving ICN's BRIC Operations Bureau Manager position available. Mark Lumsden was hired to fill that position. Many may know Mark as a customer of the ICN from his previous roles at Iowa Central Community College and the Iowa Department of Transportation (DOT). Most recently Mark was the Chief Information Officer (CIO) for the City of West Des Moines and had a brief stint with the Office of the Chief Information Officer (OCIO) with the State of Iowa. He brings over 30 years of telecom, networking, and Information Technology (IT) management and leadership experience. Mark's first assignment will be to assist our Engineering Bureau Manager, Scott Pappan, and his team with the deployment of ICN's core upgrade Jekard. Mark will be dedicated to this new role and will lead the Jekard Away Team, partners, and

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organization to the New World of the ICN. Along with his Jekard Program Manager duties, Mark will serve as the direct supervisor to the BRIC Operations team members. When Jekard is in production, Mark will transition to his role as BRIC Operations Bureau Manager for the new world of Jekard.

COMMENTS:

Mark Lumsden: Thank you Phil. I am very excited to be here.

Chair Bruner: On behalf of the ITTC, welcome aboard. We are very glad to have you and look forward to working with you. You are arriving at an interesting time as many exciting things are happening.

- **Legislative Update – Mark Johnson**

The Legislature is currently in session; however, it appears that they will conclude in the next couple of days. The ICN has experienced mixed results; the Policy Bill that was introduced was signed by Governor Branstad on April 12. The bill will allow the ICN to provide law enforcement communication services to the Iowa Department of Public Safety (DPS) and ensures the partnership with the DPS and other law enforcement related activities that fall within that realm. The ICN is waiting on the outcome of the equipment appropriation request that was not included in the infrastructure appropriations bill. Currently discussions are taking place to include the infrastructure appropriations in the standings bill. Typically, the standings bill is one of the last bills that will be enacted as the session concludes. Discussions regarding that issue have taken place with legislators, staff, governor's office, and the Department of Management (DOM) as it will likely fall to the final negotiations as what is determined to be included in the last amendment or last bill as the Legislature moves toward adjournment. At this point the final resolution is unknown, but discussions will continue to aid in moving that issue forward.

COMMENTS:

Chair Bruner: That is ICN's 1.1M equipment appropriation you are referring about?

Mark Johnson: Yes.

- **Financial Report – Mike Cruise**

The March Budget-to-Actual Report Lead Schedule for 2017 was presented. The monthly Operating Margin for March contributed to a positive cash flow for the month.

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Year-to-date Operating Margin is \$257,409.08 with a positive margin percentage of 9.6%. March represents the third consecutive month for positive monthly margins. The Year-to-date totals for the month ending in March with overall cash from Operations is (-\$1.4M) with overall margin percentage of (-5.7%), which is favorable to the budgeted percentage of (-13%) through March. A statistic from Accounts Payable reported that in late fall and early winter, staff experienced significant work time loss due to illness. At that time the average days of payables was between 55-60 days. Since staff has returned and specific attention has been given to vendors and invoices, it has been identified as a FastTrack process and that that statistic has been reduced to a 28-day average per quarter.

COMMENTS:

Chair Bruner: Is there a standard the ICN looks at for average days for invoicing?

Mike Cruise: No we do not. Ideally we prefer to keep it under 30 hours which is a good goal for us, as we keep current on the monthly invoices and fall behind.

- **Request for Financial Report Data – Deb Evans**

The FY Capital Plan (Q3) included three items:

FY 17 Capital Plan (Q3)	Budgeted	Invoiced	10% of Budget	Over/Under	Miss %
Core Replacement Layer 3 (APROP)	2,500,00	0	250,000	2,500,000	100.00%
Batteries / Rectifier (APROP)	75,000	44,395	7,500	30,605	41%
UPS for MVS (APROP)	100,000	67,120	10,000	32,880	32.88%

The Capital Plan was put in place to better track, plan, and follow through with the completion of projects. In June, (Q4) eight expenditures will be highlighted, as well as reconciliation for the entire year. This will indicate how Finance did overall for the entire year.

COMMENTS:

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Director Lumbard: Finance does have a target. We prefer to be plus or minus 10 percent, over or under forecasted capital expense. Although there can be savings of 40 or 50 percent, depending on aggressive buying and procurement our goal is to have our forecast close to what is projected.

Chair Bruner: Our initial objective was to have the Capital Program come within plus or minus 10 percent.

- **Governor Branstad Visit – Director Lumbard**

Governor Branstad visited the ICN on March 24. The Governor was presented a plaque to honor him for the vision and foresight in the establishment of the state-of-the-art broadband legacy in the State of Iowa. The initial legislation for the formation of the ICN was signed on June 5, 1989 by the Governor. Governor Branstad toured ICN's BRIC while a (DDoS) Distributed Denial of Service was taking place. Governor Branstad observed the bandwidth results and how ICN scrubs the data and returns the clean data back to the customer. The executive team had a briefing with the Governor who provided updates regarding the FirstNet process. The Governor shared with ICN's staff his thoughts about going to China and how the ICN was started.

COMMENTS:

Commissioner Lapointe: Governor Branstad's influence has been significant in keeping the ICN Network strong, and the bipartisanship of the commission has been key to its success. I give the Governor credit for his initial foresight regarding the concept of the Network.

Chair Bruner: ICN was the Governor's idea and when the Legislators chose to approve Mary Mosiman and Robert von Wolfradt, this completed the ITTC Commission nicely. That way you can get an extensive perspective on the state, public, and private level; it works out very well.

- **FirstNet Public Private Partnership – Director Lumbard**

The fifth FirstNet Iowa Public Private Partnership Summit took place on Thursday, April 6. The Federal Department of Commerce and First Responder Network Authority (FirstNet) announced the selection of AT&T to build the first nationwide wireless broadband network dedicated to America's first responders. Following are some general guidelines as to how AT&T and FirstNet will proceed:

- "AT&T will springboard FirstNet's band 14 coverage from their existing commercial network"

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Day 1 Rollout:

1. 72.6% Geographical Coverage
2. 99.9% Population Coverage
3. Quality Priority Pre-emption (QPP) on all Commercial 4G coverage
4. Ruthless Pre-emption
5. Local Control
6. Deployables
7. Cyber Security
8. Dedicated Customer Care

AT&T Network Coverage of Iowa:

- AT&T has a lot of 4G LTE coverage in the State of Iowa. The conversation will consist of whether the rural areas of Iowa are being reached with effective LTE coverage? This will be answered in AT&T's state plan.

Rivada Court Case:

- A court case involving Rivada was filed against FirstNet. That case has been resolved in favor of FirstNet. No objections or appeals have been filed at this time.

FirstNet AT&T Partnership Framework:

FirstNet will provide:

- Program Management
- Spectrum & \$5.5B Funding
- Public Safety Expertise & Relationships
- Customer Experience Innovation

AT&T will provide:

- Technology Innovation & \$40B investment
- \$180B Infrastructure & Services
- Security (Cyber, Application, & Network)
- Telecommunications Expertise

IGOV Engagement:

1. March 2017 – Gov. Branstad fully updated
2. March 2017 – Lt. Governor Reynolds updated
 1. Met with TJ Kennedy (FirstNet)
 2. Full Briefing
 3. Fully Engaged
3. No Legislative engagement required
4. Fully formed conduit from State Plan to Governor's desk
5. Day 1 (Defined) = The day the Governor signs

Iowa State Plan Approval Process:

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- “We are in the 100 days, post award state plan period”

Steps to State Plan Release:

- Single Point of Contact (SPOC)
- Draft FirstNet State Plan Release
- FirstNet Presents State Plans
- States Submit Comments to FirstNet
- FirstNet Reviews Comments
- FirstNet State Plan Release

Opt In/Out Roadmap:

- A very defined process has been established so when the State Plan occurs the Governor will be informed in order to Opt-In or Opt-Out according to the plan. The decision identifies whether FirstNet or the state takes on the responsibility to deploy, operate, and maintain the State Radio Access Network (RAN).

FirstNet Device Information:

- All mobile device types that currently operate on the commercial AT&T 4G Long Term Evolution (LTE) will work on the Band 14 spectrum when released.

COMMENTS:

Commissioner Lapointe: This appears to be the culmination of many years talking about this type of public private partnership on a grander scale. Are there any other states in the country participating to this degree?

Director Lumbard: Every state is involved as the law states that there will be a National Public Safety Broadband Network. The interactions of each state vary; however, Iowa is within the top 5% of the states as far as being interactive. However; there are other states that do not want to be involved in the process. There has been a huge migration regarding the conversation which has been a learning curve for many states. Not all states have active OCIO integrated processes like Iowa does so the conversation lacks. Some states have decided to go through a Request for Proposal (RFP) process independently. I believe that Iowa has a strong plan due to the fact that the State can build from good coverage and build from there.

Commissioner Lapointe: Is the monetary outlay that was discussed be contractual and can we rely on that or will there be competition for that in the future?

Director Lumbard: If a state Opts-In our Public Safety users can subscribe to FirstNet as they would for any carrier. A couple of questions arise: will it be cost effective and is equal or better service received from the commercial networks. It will be an economics issue, some will switch and some will not. We believe that

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with the total number of devices in the state would not exceed 40,000, and the change would be to leave their current carrier and subscribe their phones to the subscription service of FirstNet. The ICN or the State of Iowa does not have to contribute to the Opt-In scenario, should something arise and the state would have to Opt-Out that has different implications.

Commissioner Lapointe: The financial outlay of AT&T will be present as long as the market allows.

Director Lumbard: Yes, it was part of the actual RFP demonstration. The Vendor's who qualified had to go through a series of steps one of which was demonstrating a 25 year financial commitment, which disqualified Ravada as they could not demonstrate a 25 year financial commitment. AT&T is one of the largest Telecommunication conglomerate and they had the financial strength to confirm that they would back the project for 25 years and that is what FirstNet needed to hear.

Commissioner Mosiman: Will AT&T participate in other states as well.

Director Lumbard: AT&T currently has the entire nation. They may partner with other carriers to expand their network coverage, but AT&T is the prime vendor of 50 States and 5 Territories.

Commissioner Lange: How long does AT&T have to provide LTE coverage in rural areas that are not covered?

Director Lumbard: That is a good question, at this time we do not know. Hopefully that information would be revealed in the state plan, but until the plan is disclosed we are unsure what the big picture will look like.

Chair Brunner: I would like to comment on the professionalism regarding the FirstNet Summit. Over 100 people were present either in person or by video with a strong and informed group of panelists. ICN makes a concerted effort to involve the private sector; last year 140 companies in Iowa pre-qualified so when AT&T's plan is revealed, they will know how to partner with the companies that have already been pre-qualified since AT&T has their information available. The individual who will be designing the State of Iowa Plan was a panelist at the Summit. He had the opportunity to receive input from Dave Duncan of the Iowa Communications Alliance (ICA) and others who would like to participate with AT&T since Iowa has a great network and is willing to partner with AT&T. The message was evident that the State of Iowa has a lot of resources in the private sector. Some states have not been involved thus far, Iowa; however, has been aggressive since the beginning. Because the private sector has been involved

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they feel comfortable that the ICN is doing everything possible to make them a part of the network.

Commissioner Lange: What happens when states choose not to participate?

Director Lumbard: It is a law that all states have a network. By federal code, FirstNet is tasked to do it. The State of Iowa made the decision early on that being involved in the conversation would help understand the overall process. Other states are waiting to see what materializes prior to committing. In some states there have been heated discussions, we will have to watch how things unfold.

Chair Bruner: The fact that AT&T obtained the contract, things will progress quickly since their commercial network is already present. AT&T will attach to the FirstNet Network so it should roll out quicker than someone who would be starting from the beginning.

Director Lumbard: In the case of Wisconsin, AT&T already provides the majority of the infrastructure for that state in that type of operation, even 911. It is a very simple deployment in some states and very challenging in others.

- **Future of the ICN – Director Lumbard**

ICN has operated under a certain distinction of technology for the last 20 years. Discussions began in 2013 to upgrade ICN's core. Now, ICN has the opportunity for a new era of communications. The telecom industry is currently going through a monumental season of change. Carriers from the telecom world are shifting into (SDN) Software Defined Networking almost wholesale, in order to provide the commodity based broadband that is necessary in the market space today. ICN is in the one percent of any telecom carriers that will change platforms. ICN will build the new platform along the existing platform and then transition to it. Then, the network will be operated through SDN automation.

Director Lumbard showed a detailed presentation introducing the future of the ICN. The presentation included plans on implementing the new platform of Jekard, while explaining how the ICN will sunset the former hardware.

COMMENTS:

Commissioner Lapointe: There will be cost savings due to not purchasing new hardware when upgrading, correct? Will there be expenses involved with getting rid of the old hardware and does this core upgrade promote the life of the existing required hardware?

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Director Lumbard: Yes, an important fact regarding the core upgrade is the equipment that is currently going to end-of-life and end-of-service, so regardless; the equipment has to be replaced one way or the other. By using the new software the ICN can get into commodity hardware so the overall cost of hardware decreases. This is the direction the telecom industry is headed, to continue to provide powerful services at locations done with a commodity piece of hardware. The hardware that is important to keep will transition over; however, it has to pass through our process. Nothing that is near end-of-life or unautomated software controllable will be moved over.

Commissioner Lapointe: Will that bring in more public/private partnerships?

Director Lumbard: By choosing Cisco any hardware that the ICN has available within our network structure, old or new is able to be managed by the new Cisco Network Services Orchestrator (NSO). Cisco's Network Element Devise (NEDS) interfaces are built for Brocade, which is our existing core. NEDS are also built for Juniper, Cienna, and Adva which are all the major pieces of our infrastructure. This one automation fabric can control it all; this takes humans out of the loop, it does not replace them, but takes them out of having to pass paper and orders. It puts them above the automation process to ensure everything is done correctly.

Scott Pappan: A classic example is, the ICN is releasing a new product and virtualizing the entire video platform. Everything will go video Internet Protocol, (IP) at that time, ATM, the ATM network, all the Polycom equipment and all the equipment we currently have to support today will be removed.

Commissioner Lapointe: Fantastic.

A presentation was shown introducing the new platform of Jekard.

Chair Bruner: I would like to congratulate everyone for understanding the changes that are taking place in the industry and not only having the vision to move forward on a new network design, but the funds to pay for it as well.

Commissioner Kohorst: I am pleased that the new vision coincides with the original charter for ICN. I am curious as to how this new platform will look for our customers? We discussed having less cost on our side, but obviously with our many partners, the cost will have to be shared by our customers. Has that been considered? We do not want to lose sight of our customers.

Director Lumbard: We believe that the customers' experience will be three fold:

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1. *There will be a fast implementation in changes where currently their experiences now consist of many days.*
2. *They will have the flexibility to make changes at their convenience at their control.*
3. *This will provide efficiencies of their service where ordinarily they would be required to buy certain hardware and now those functions are virtually included and provided in their service from day one.*

For example our MVS phone service; will be a vital service to Jekard and is already providing cost savings because it is taking out an extraordinary amount of voice hardware and replacing with a virtual phone service. The customer experiences reduced cost, per port, no contracts, no license fees, no maintenance cost and they receive a simple pricing matrix due to being a virtual phone service. ICN is anticipating the same result financially to our customers to where it will be a simple interface, cost structure, and not having to pay for expensive hardware to be added on to their services.

Commissioner Kohorst: Thank you.

- **Commissioner Lapointe Re-Appointment – Mark Johnson**

Commissioner Lapointe's reappointment was confirmed by the Senate on April 6, 2017 for another six-year term on the ITTC.

COMMENTS:

Commissioner Lapointe: I am honored and humbled to have a lengthy career with the Commission. I am impressed with the level of staff and the exciting things that have been accomplished at the ICN. Serving on the ITTC has been a true source of pride in my life and I thank each of you for contributing in making it that way. Not only are you an excellent staff but have become friends as well, and I appreciate that.

Chair Bruner: We are glad to have you back.

Director Lumbard: The May ITTC Meeting has been cancelled due to several scheduling conflicts.

V. Adjournment

Commissioner Kohorst moved that the meeting be adjourned. The ITTC meeting adjourned at 12:10 p.m.

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ATTESTED TO:

Richard Bruner, Chair, Iowa Telecommunications and Technology Commission

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